

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/071268 A1

(51) International Patent Classification⁷: **F04C 18/16**,
25/02, F04D 19/04

(74) Agent: **BOOTH, Andrew, Steven**; The BOC Group plc,
Chertsey Road, Windlesham, Surrey GU20 6HJ (GB).

(21) International Application Number:
PCT/GB2005/000126

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0401484.1 23 January 2004 (23.01.2004) GB

(71) Applicant (for all designated States except US): **THE
BOC GROUP PLC** [GB/GB]; Chertsey Road, Windle-
sham, Surrey GU20 6HJ (GB).

(72) Inventor; and

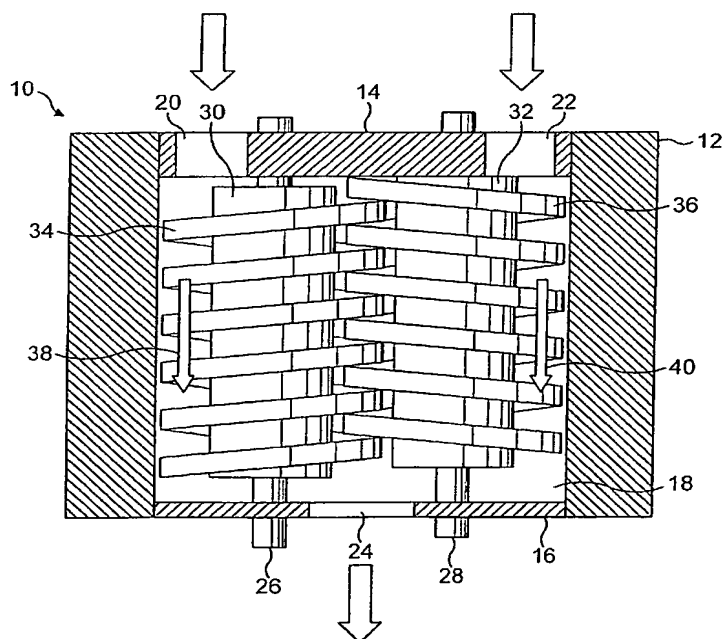
(75) Inventor/Applicant (for US only): **SCHOFIELD, Nigel,
Paul** [GB/GB]; BOC Edwards, York Road, Burgess Hill,
West Sussex RH15 9TT (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **SCREW VACUUM PUMP**



(57) Abstract: The invention provides a dual inlet screw pump, in which a chamber (18) defines with first and second externally threaded rotors (30, 32) respective fluid flow paths within the chamber (18). This can enable fluid entering the pump via a first inlet (20) to be pumped substantially in isolation from fluid entering the pump via the second inlet (22).



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.